

### **Amendments to the Claims:**

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 10-16 are new.

### **Listing of Claims:**

1. (Currently Amended) A method of manufacturing an optical head comprising an integrated unit in which a light source and a ~~light-emitting diode~~ photodetector are combined into one component, an objective lens actuator for maintaining an objective lens as a means of focusing light onto a disk information recording medium and actuating the objective lens in a focus direction and a radial direction of the disk information recording medium, and an optical bench for maintaining the integrated unit and the objective lens actuator, the method comprising:

fixing the integrated unit to the optical bench; and then

moving ~~carrying out relative position adjustment of~~ the objective lens actuator with respect to the optical bench or the integrated unit by rotating the objective lens actuator about an approximate center of the objective lens in a plane approximately orthogonal to an axis of light entering the objective lens so that a desired detection signal can be obtained through reflected light from the disk information recording medium.

2. (Currently Amended) The method of manufacturing an optical head according to claim 1, wherein the ~~relative position adjustment~~ moving of the objective lens actuator comprises position adjustment in a plane approximately orthogonal to an axis of light entering the objective lens.

3. (Currently Amended) The method of manufacturing an optical head according to claim 1, wherein the ~~relative position adjustment~~ moving of the objective lens actuator comprises position adjustment in the radial direction and/or a tangential direction of the disk information recording medium.

4. (Currently Amended) The method of manufacturing an optical head according to claim 1, wherein the ~~relative position adjustment~~ moving of the objective lens actuator comprises skew adjustment of the objective lens actuator for adjusting a relative angle between the disk information recording medium and the objective lens.

5. (Currently Amended) The method of manufacturing an optical head according to claim 1, wherein the ~~relative position adjustment~~ moving of the objective lens actuator comprises position adjustment of the objective lens actuator in a direction of an axis of light entering the objective lens.

6. (Original) The method of manufacturing an optical head according to claim 1, wherein the optical head further comprises a mirror positioned between the light source and the objective lens actuator, and

after fixing the integrated unit to the optical bench, relative position adjustment of the mirror is carried out with respect to the optical bench or the integrated unit so that a desired detection signal can be obtained through reflected light from the disk information recording medium.

7. (Original) The method of manufacturing an optical head according to claim 6, wherein the relative position adjustment of the mirror comprises angle adjustment of an axis of reflected light from the mirror.

8-9. (Canceled)

10. (New) A method of manufacturing an optical head comprising an integrated unit in which a light source and a photodetector are combined into one component, an objective lens actuator for maintaining an objective lens as a means of focusing light onto a disk information recording medium and actuating the objective lens in a focus direction and a radial direction of the disk information recording medium, and an optical bench for maintaining the integrated unit and the objective lens actuator, the method comprising:

fixing the integrated unit to the optical bench; and then

moving the objective lens actuator with respect to the optical bench or the integrated unit in a plane approximately orthogonal to an axis of light entering the objective lens so that a desired detection signal can be obtained through reflected light from the disk information recording medium;

wherein the objective lens is adjusted by being rotated about an approximate center of the objective lens in the plane approximately orthogonal to an axis of light entering the objective lens.

11. (New) The method of manufacturing an optical head according to claim 10, wherein the moving of the objective lens actuator comprises position adjustment in the plane approximately orthogonal to an axis of light entering the objective lens.

12. (New) The method of manufacturing an optical head according to claim 10, wherein the moving of the objective lens actuator comprises position adjustment in the radial direction and/or a tangential direction of the disk information recording medium.

13. (New) The method of manufacturing an optical head according to claim 10, wherein the moving of the objective lens actuator comprises skew adjustment of the objective lens actuator for adjusting a relative angle between the disk information recording medium and the objective lens.

14. (New) The method of manufacturing an optical head according to claim 10, wherein the moving of the objective lens actuator comprises position adjustment of the objective lens actuator in a direction of an axis of light entering the objective lens.

15. (New) The method of manufacturing an optical head according to claim 10, wherein the optical head further comprises a mirror positioned between the light source and the objective lens actuator, and

after fixing the integrated unit to the optical bench, relative position adjustment of the mirror is carried out with respect to the optical bench or the integrated unit so that a desired detection signal can be obtained through reflected light from the disk information recording medium.

16. (New) The method of manufacturing an optical head according to claim 15, wherein the relative position adjustment of the mirror comprises angle adjustment of an axis of reflected light from the mirror.

**Amendments to the Drawings:**

Amendments to the drawings are shown in the Replacement Drawings attached after the Remarks section of this paper.

Figures 10-13 are amended to include the legend "Prior Art."